## MINNESOTA ENERGY CODE

## 1-2 Family Residential Building RESIDENTIAL "COOKBOOK" WORKSHEET

Applicant Name Phone		Date	This building is a:  ☐ Category 2 Building (meets minimum code requirements for air tightness and wind wash barriers)	Statement of Compliance: The proposed building design represented in these documents is consistent with the buildin plans, specifications, and other			
Applicant Address  Building Address:			☐ Category 1 Building (meets all Category 2 requirements, has additional air tightness, and a Residential Mechanical Ventilation System)	calculations submitted with the permit application. The proposed building has been designed to meet the requirements of the Minnesota Energy Code.			
			Plans must be clearly marked with insulation R-values, window and door U-values, and heating and cooling equipment efficiencies.				

MINIMUM REQUIREMENTS for "Cookbook" Ontion:

Entry Doors	1-3/4" solid wood w/ storm door or equivalent	Ceiling with energy truss (7½" or more —top plate to	R-38**	Rim joist	R-19
	Maximum U-value: 0.30	roof)			
Foundation	1/2" Insulated Glass in wood or	Ceiling with low heel truss	R-44**	Floor over unconditioned	R-24
Windows*	vinyl frame	(7½" or less—top plate to roof)		space	1021
*Include square footage in calculation of Window/Door Area		Ceiling—no attic	R-38 w/ R-5 sheathing		
to determine above grade Window U-Value.		**Insulation Performance at Win			

Window and Door Area As % of Exposed Wall Area

Window/Door Area : Gross Wall Area

## **MAXIMUM WINDOW U-VALUES:**

Check Wall Type	WALL TYPE		MAXIMUM WINDOW AND DOOR AREA % OF EXPOSED WALL AREA											
Used			12%	14%	16%	18%	20%	22%	24%	26%	28% 3	30% 3	2%	34%
	TYPE A	2x4 framing, R-13 insulation, sheathing R-7 or greater.	0.55	0.47	0.41	0.36	0.33	0.30	0.27					
	TYPE B	2x4 framing, R-15 insulation, sheathing R-5 or greater.	0.52	0.45	0.39	0.35	0.31	0.28	0.26				_	0.19
	ТҮРЕ С	2x6 framing, R-19 insulation, sheathing less than R-5.	0.48	0.41	0.36		0.29		0.24					0.18
	TYPE D	2x6 framing, R-19 insulation, sheathing R-5 or greater.	0.56		0.42	CHARL CHRIST	0.34	0.31	0.28					
	TYPE E	2x6 framing, R-21 insulation, sheathing less than R-5.	0.51	0.43	0.38		0.30	0.28	0.25			0.22	0.21	0.20
	TYPE F	2x6 framing, R-21 insulation, sheathing R-5 or greater.	0.58	0.50	0.44		0.35	0.32	0.29		+	+	+	+

Questions? Call Department of Public Service Information Center at 612/296-5175 or 1-800/657-3710.



This is a summary only. Other requirements may apply. See the Minnesota Energy Code.